

**REMARKS/ARGUMENTS**

In view of the foregoing amendments and the following remarks, reconsideration of this application is requested. Claims 2-6 and 9-20 are now pending with claims 6, 9, 12, and 17 being independent. Claims 9, 17, and 18 have been amended. New claim 20 has been added.

Applicants filed a "Response to Final Office Action" on November 7, 2005 that the Examiner stated failed to place this application in condition for allowance. Applicants request that the previously filed "Response to Final Office Action" be entered and this "Amendment as Submission for Request for Continued Examination" also be entered in the order in which they were filed.

Applicant has submitted along with the Request for Continued Examination (RCE) an Applicant Initiated Interview Request Form PTOL-413A. Form PTOL-413A requests that the Examiner grant Applicant's representative Indranil Chowdhury an interview prior to mailing an office action on the merits in response to the RCE.

Applicant thanks the Examiner for indicating in the Advisory Action mailed December 22, 2005 that claims 6 and 12 are allowable.

The Examiner in the Advisory Action for independent claims 9 and 17 states that:

[T]he detail of "multiply circuit" (lines 4-7) does not positively recite the "first element of the first pair of elements is a most significant element of the first pair of elements" for forming "most significant product" and "least significant product" as required in amended claim 6. ... The claim also raise the 112, 2<sup>nd</sup> paragraph because it is unclear how the "multiply circuit" operates for providing the "most significant product" and "least significant product".

Applicant has amended claims 9 and 17 to recite the multiply circuit forming the most significant product and the least significant product. Claims 9 and 17 include the limitation of claim 6 for forming "a most significant product of a first element of the first pair of elements and a most significant element of the second pair of elements and a least significant product of the first element of the first pair of elements and a least significant element of the second pair of elements, wherein the first element of the first pair of elements is a most significant element of the first pair of elements" that was indicated as allowable by the Examiner, thus making claims 9 and 17 allowable.

Newly added claim 20 includes the limitation of claim 17 "shifter is operable to shift a selected amount in response to the rounding multiplication instruction."

Claims 2-5, 10-11, 13-16, and 18-20 each depend from one of independent claims 6, 9, 12, and 17, respectively, discussed above. Accordingly, dependent claims 2-5, 10-11, 13-16, and 18-20 are allowable for the reasons set forth with respect to their respective independent claims, and for containing allowable subject matter in their own right. Independent consideration and allowance of the dependent claims are requested.

In view of these remarks and amendments, Applicant submits that this application is now in condition for allowance and the Examiner's prompt action in accordance therewith is respectfully requested. The Commissioner is authorized to charge any additional fees and/or credit any overpayment to Deposit Account 20-0668 of Texas Instruments Incorporated.

Respectfully submitted,



Indranil Chowdhury  
Attorney for Applicant  
Reg. No. 47,490

Robert D. Marshall, Jr.  
Texas Instruments Incorporated  
P.O. Box 655474, MS 3999  
Dallas, TX 75265  
(972) 917-5290